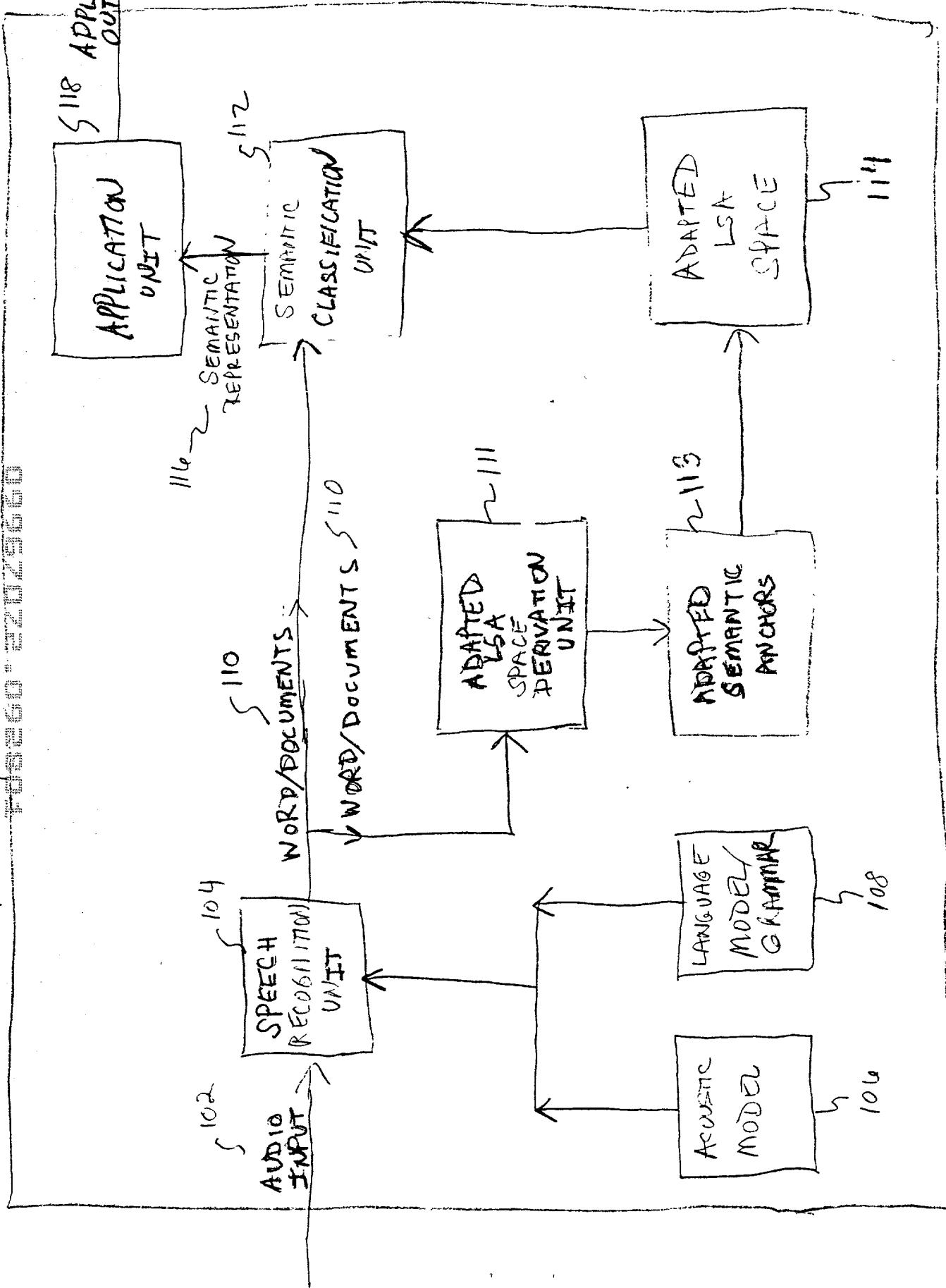


100
SYSTEM



FIGO. I

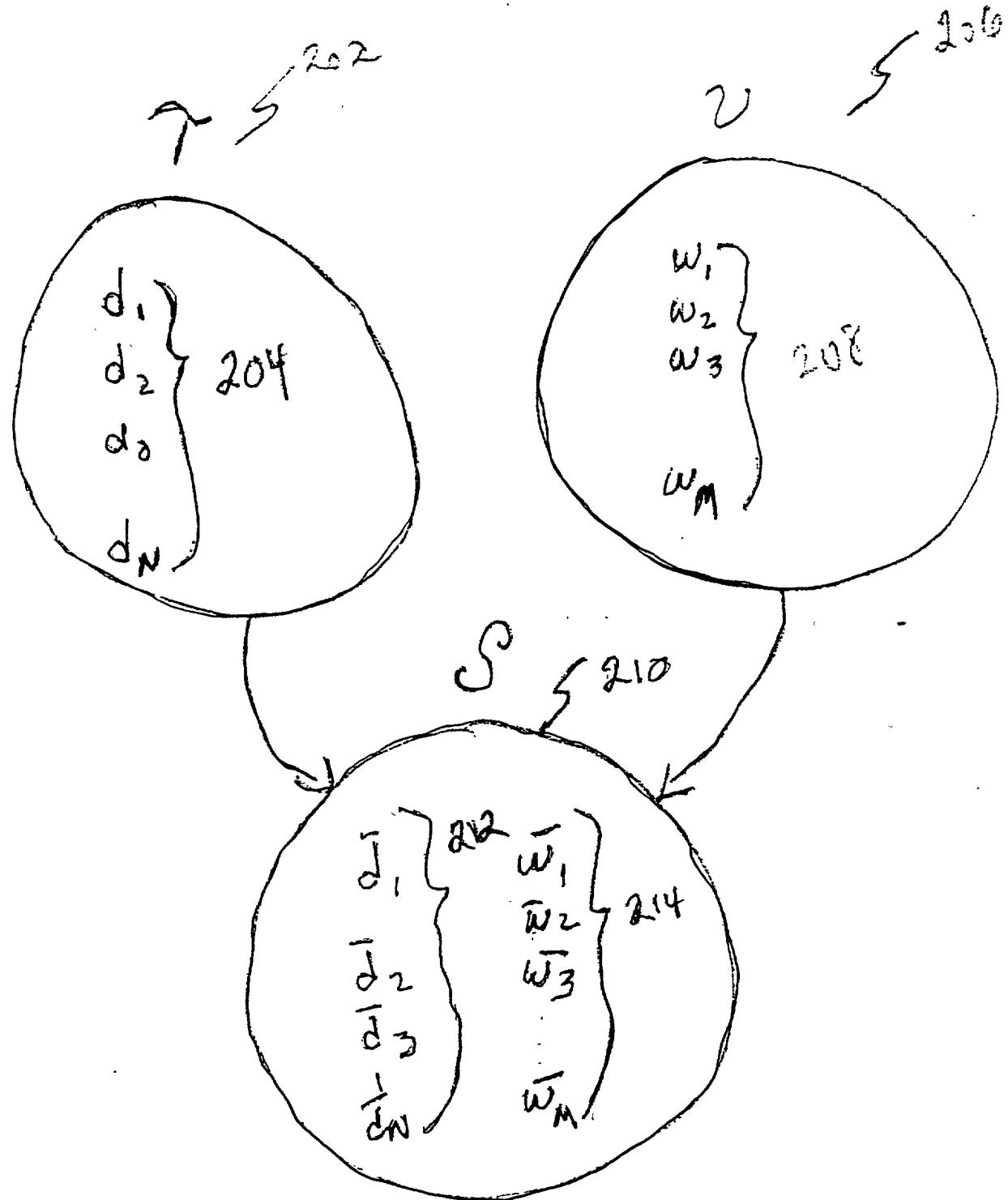


FIG. 2

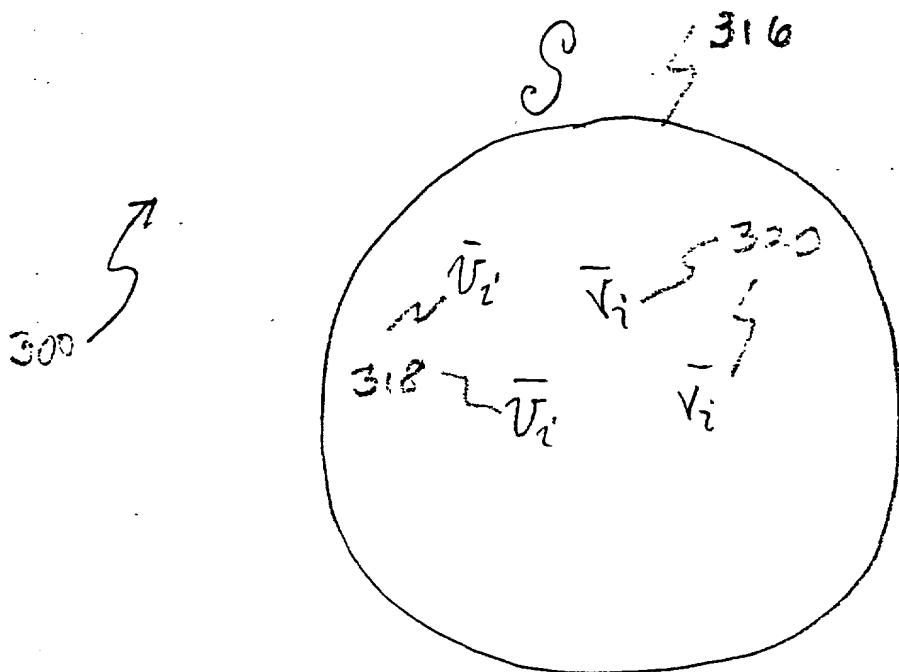
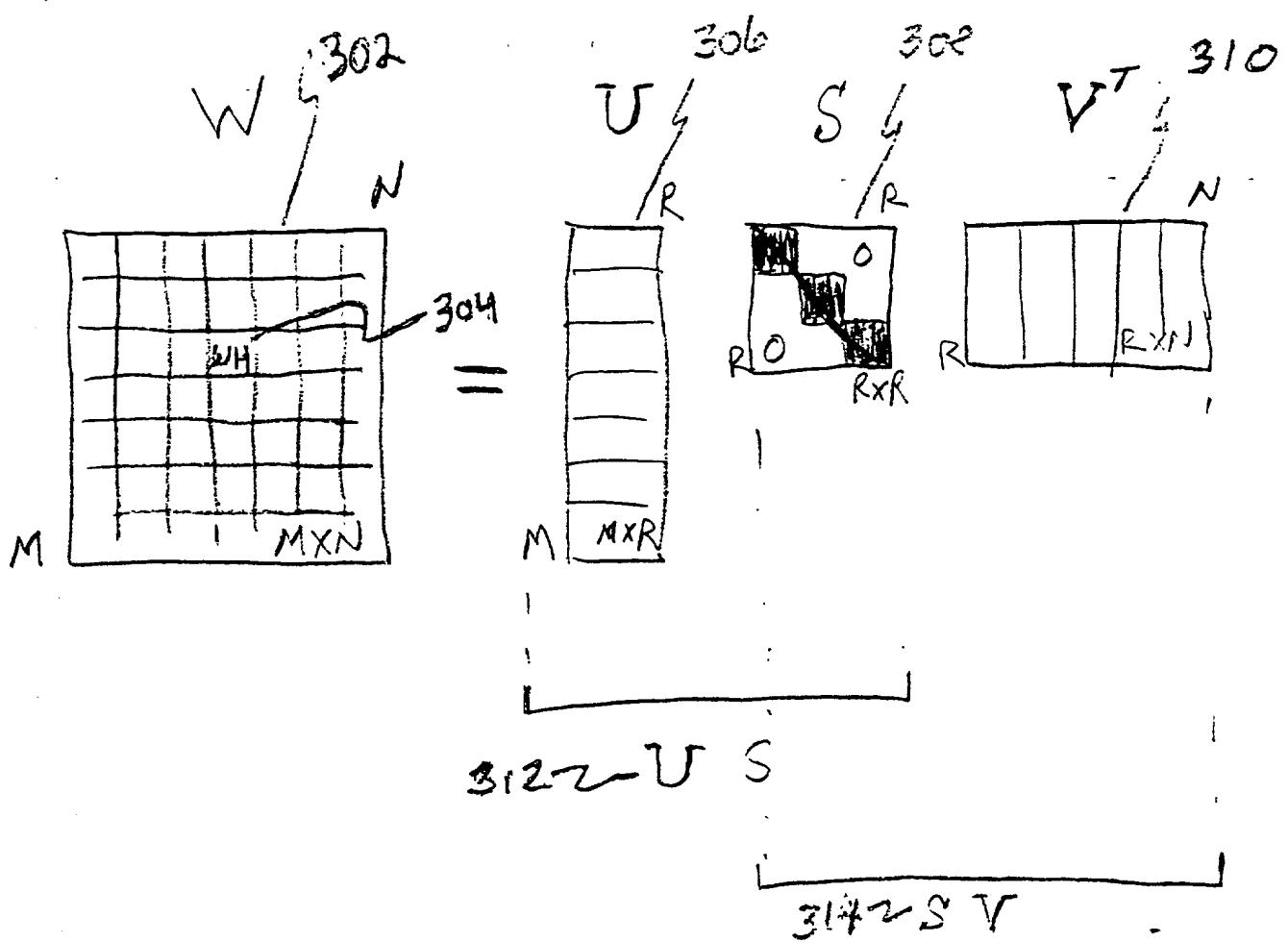


FIG. 3

$$\begin{array}{c}
 \text{Diagram showing matrix factorization: } \\
 \tilde{W} \xrightarrow{402} \begin{matrix} N & N+n \\ M & M+m \end{matrix} = \tilde{U}_1 \xrightarrow{406} \begin{matrix} R \\ R \times R \end{matrix} \xrightarrow{408} \tilde{S} \xrightarrow{410} \begin{matrix} N & N+n \\ R \times N & R \times (N+n) \end{matrix} \\
 \text{Dimensions: } \tilde{W} \xrightarrow{430} M \quad \tilde{U}_1 \xrightarrow{432} M \quad \tilde{S} \xrightarrow{434} M \quad \tilde{V}^T \xrightarrow{439} R \quad \tilde{E} \xrightarrow{428} R \times (N+n)
 \end{array}$$

$$\begin{array}{l}
 \tilde{C} = [C \ E] \xrightarrow{422} \\
 \tilde{D} = [D \ F]^T \xrightarrow{424} \\
 412 \xrightarrow{} \tilde{U}_1 \tilde{S} = \tilde{U}_1 \quad \boxed{\quad} \\
 414 \xrightarrow{} \tilde{S} \tilde{V} = \tilde{V}_1
 \end{array}$$

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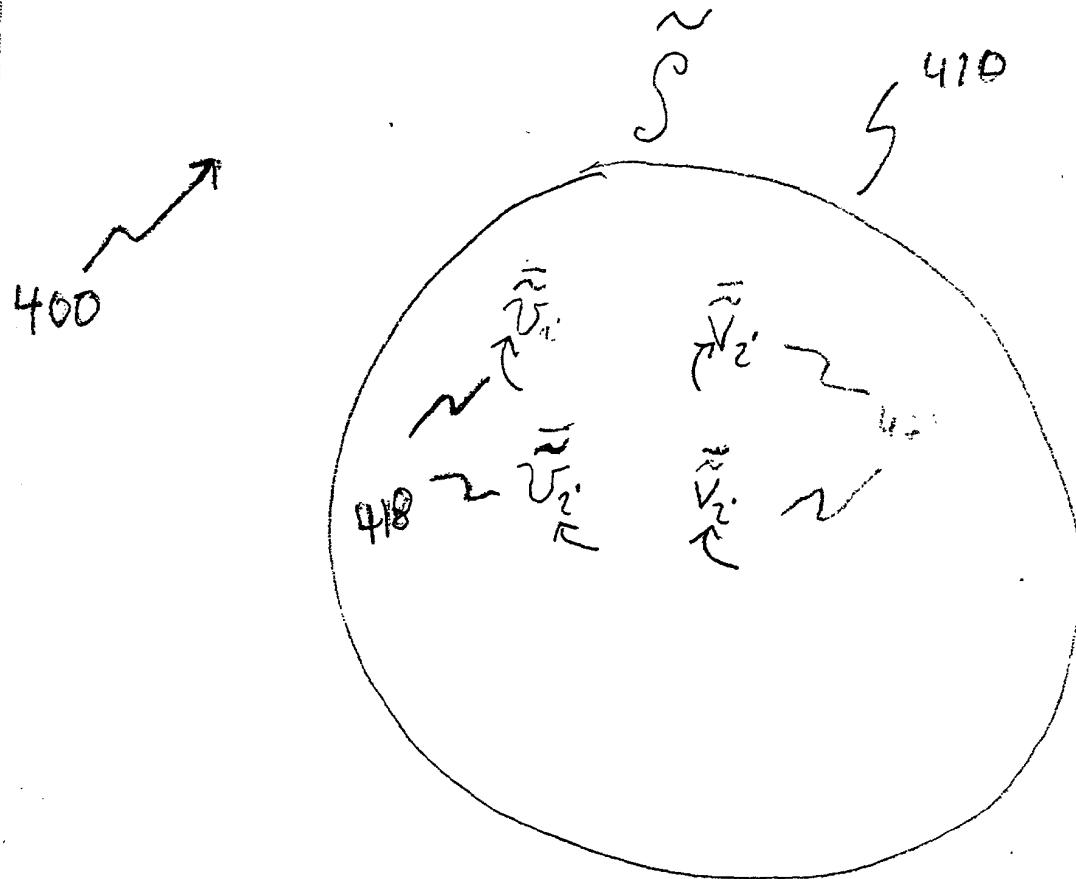
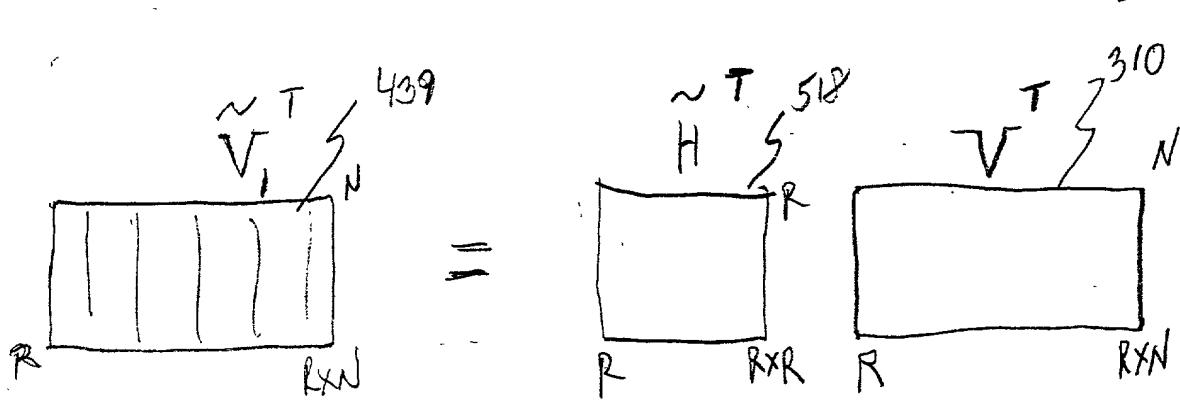
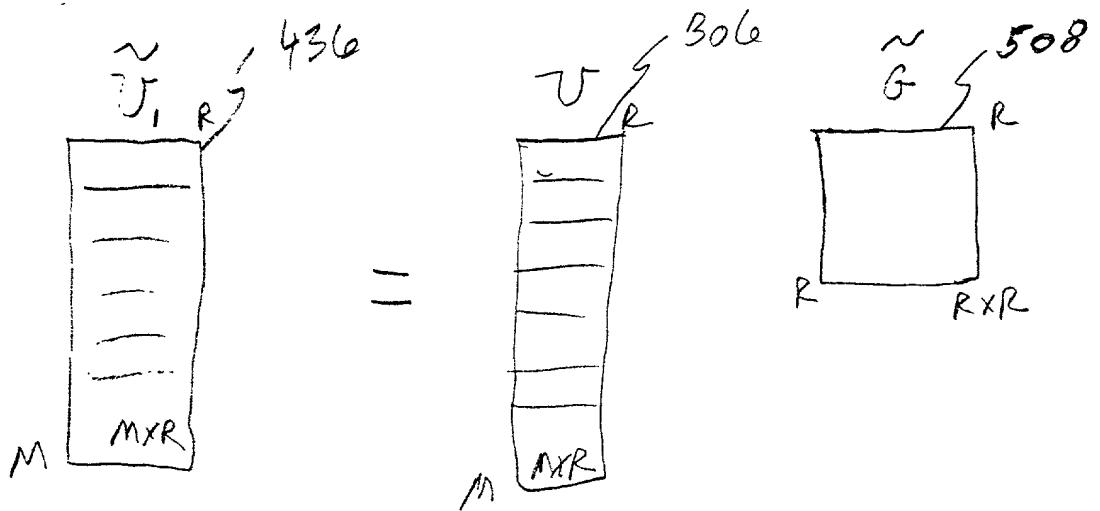


FIG. 4



500

FIG. 5

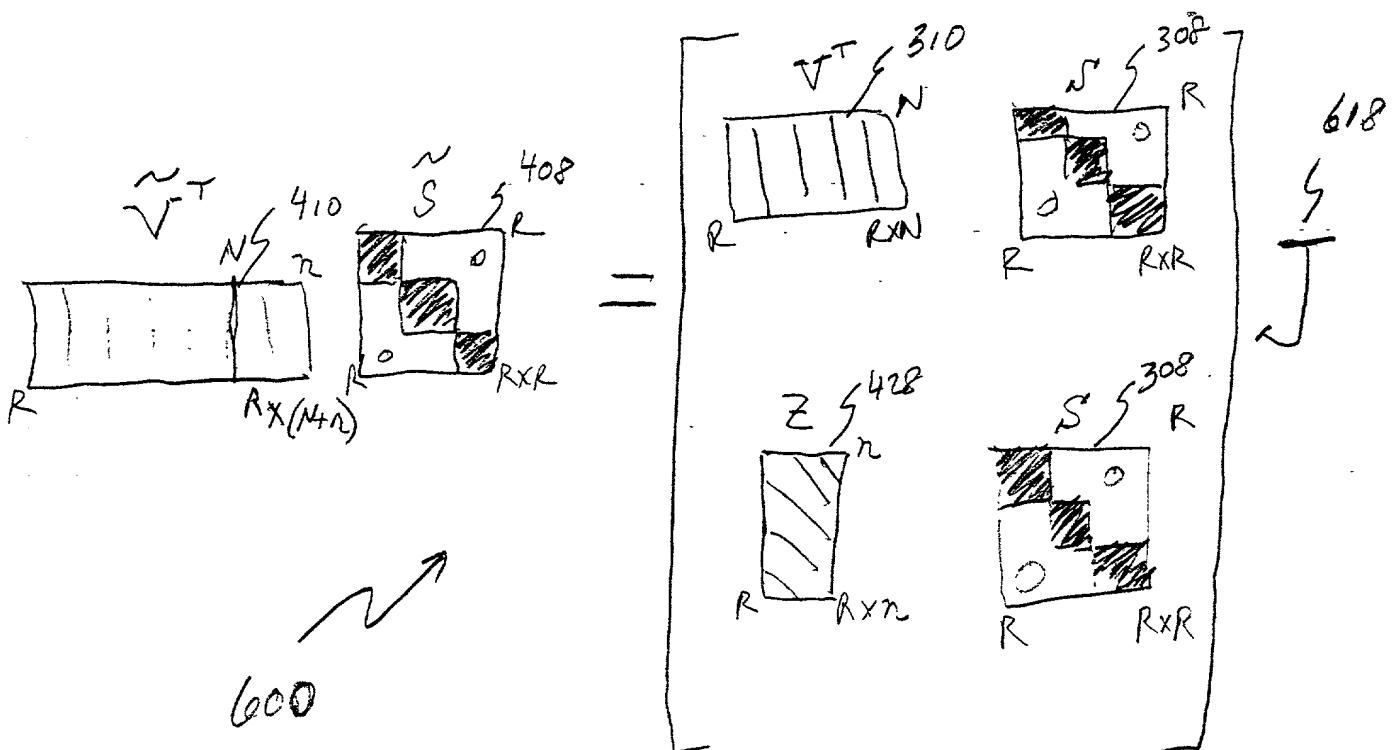
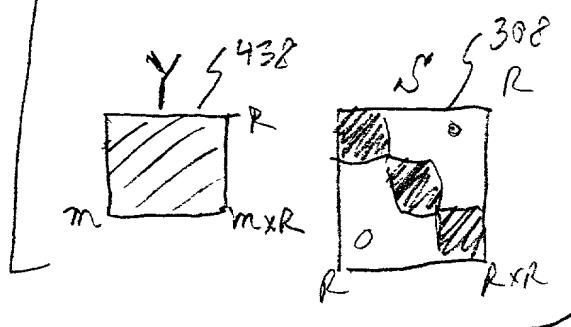
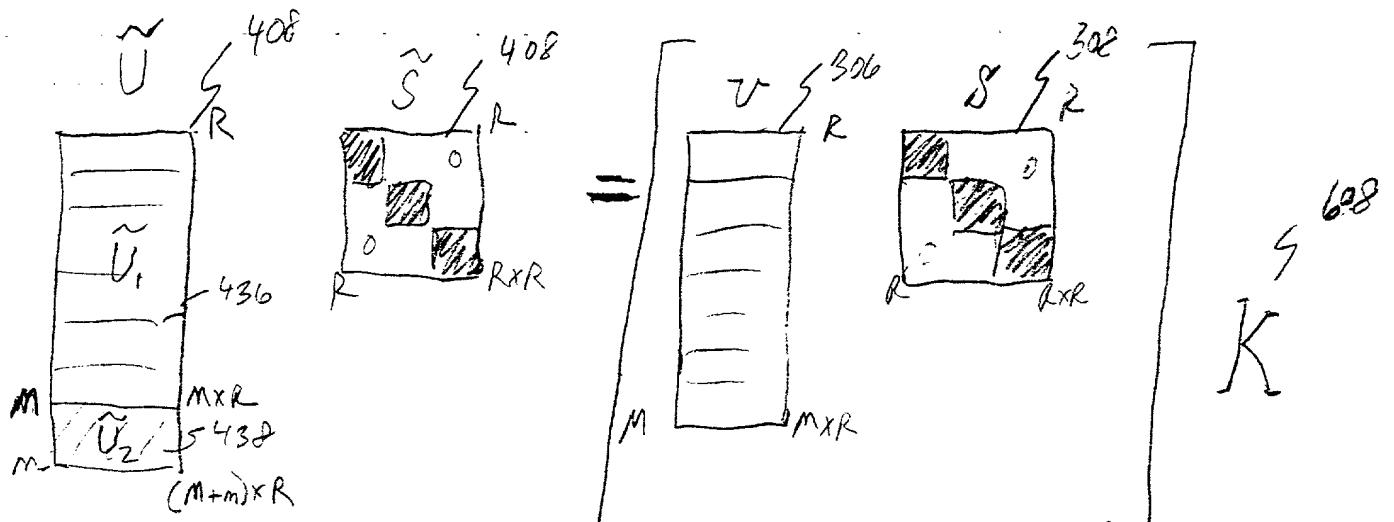


FIG. 6

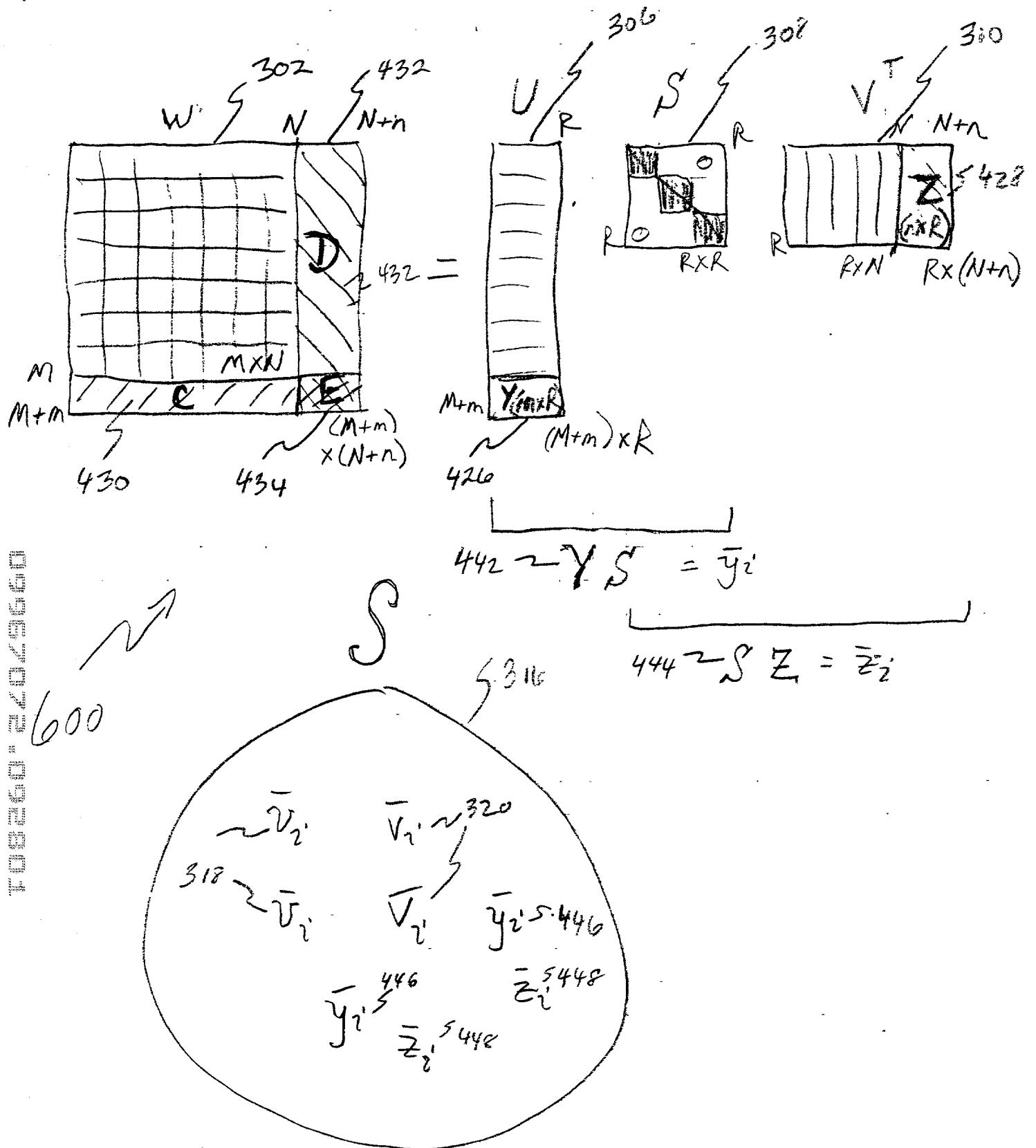


FIG. 7 (PRIOR PART)

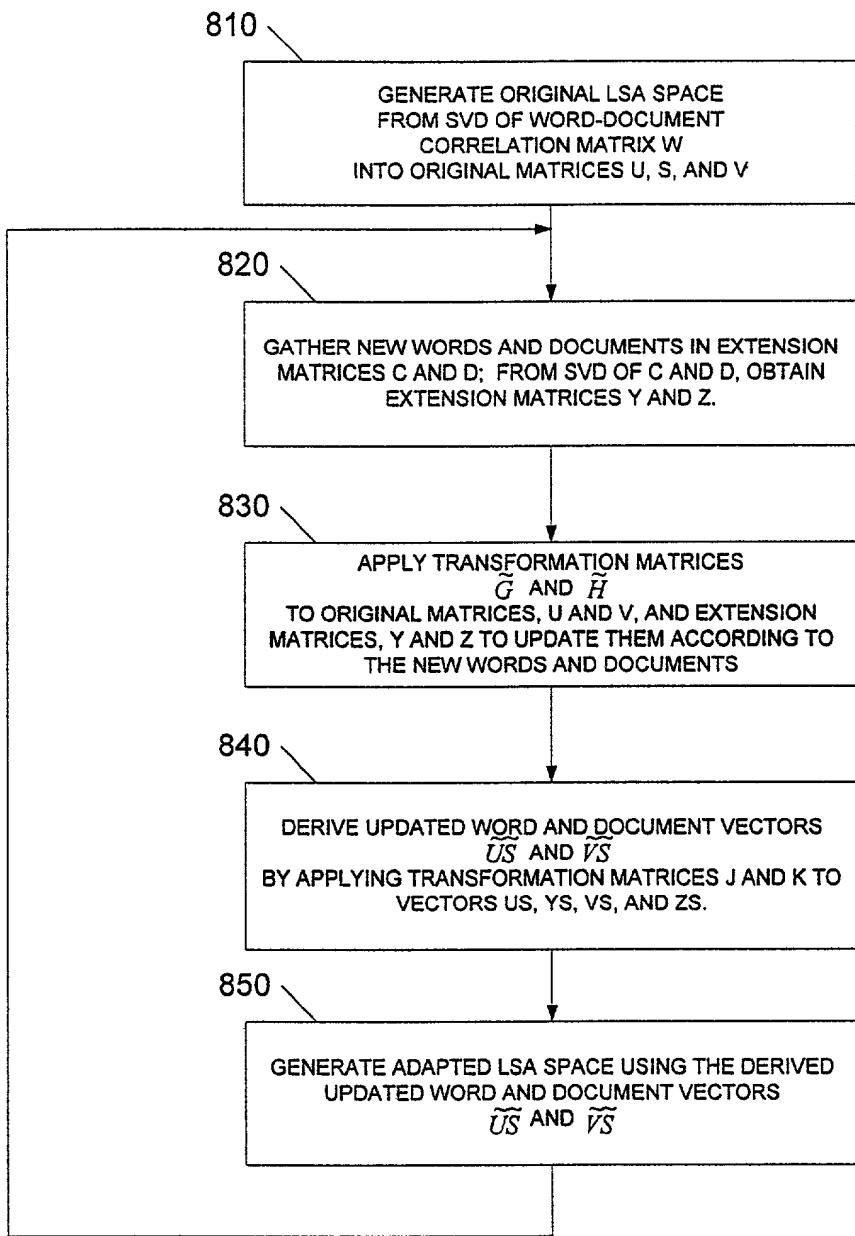


FIG. 8

900

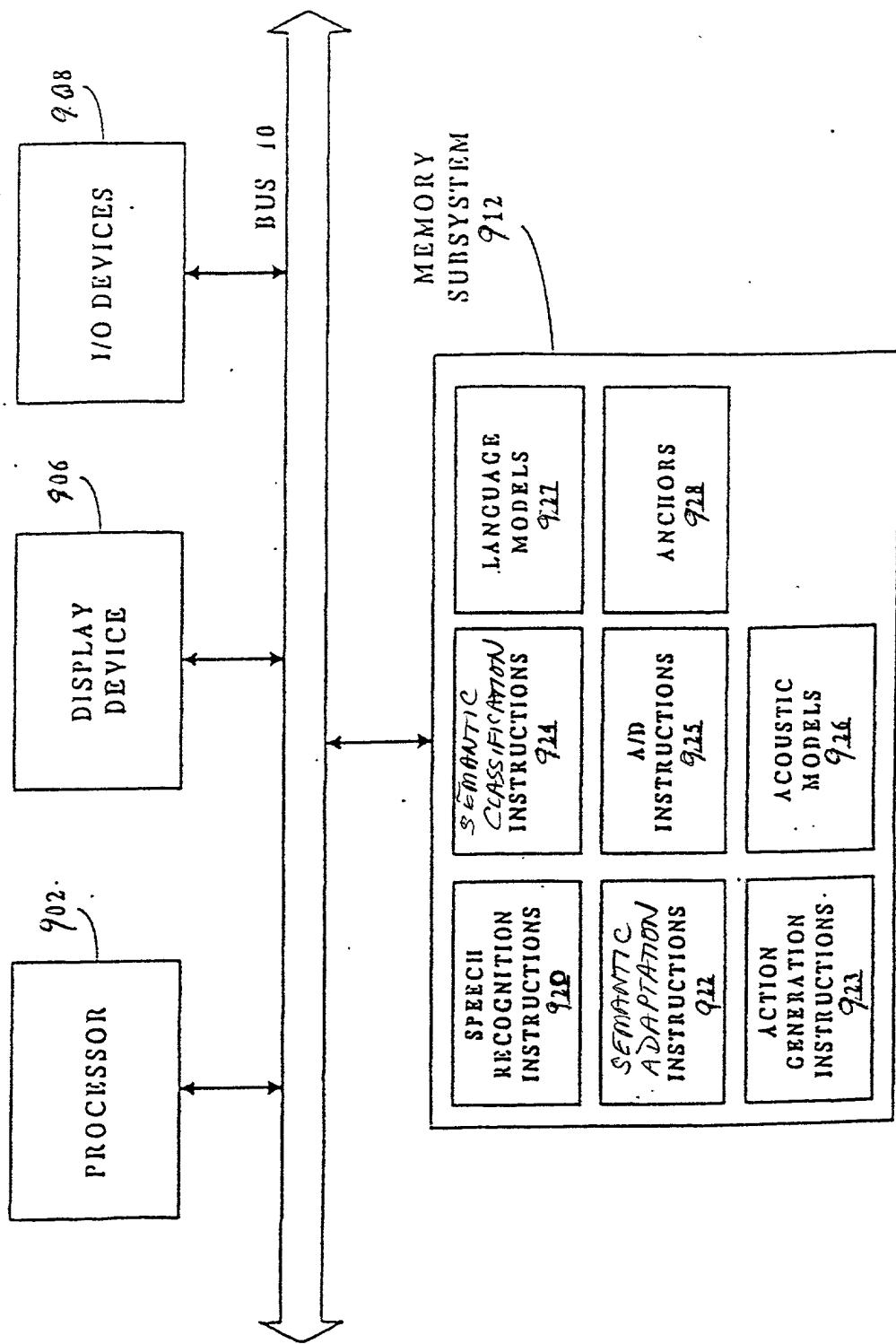


FIG. 9

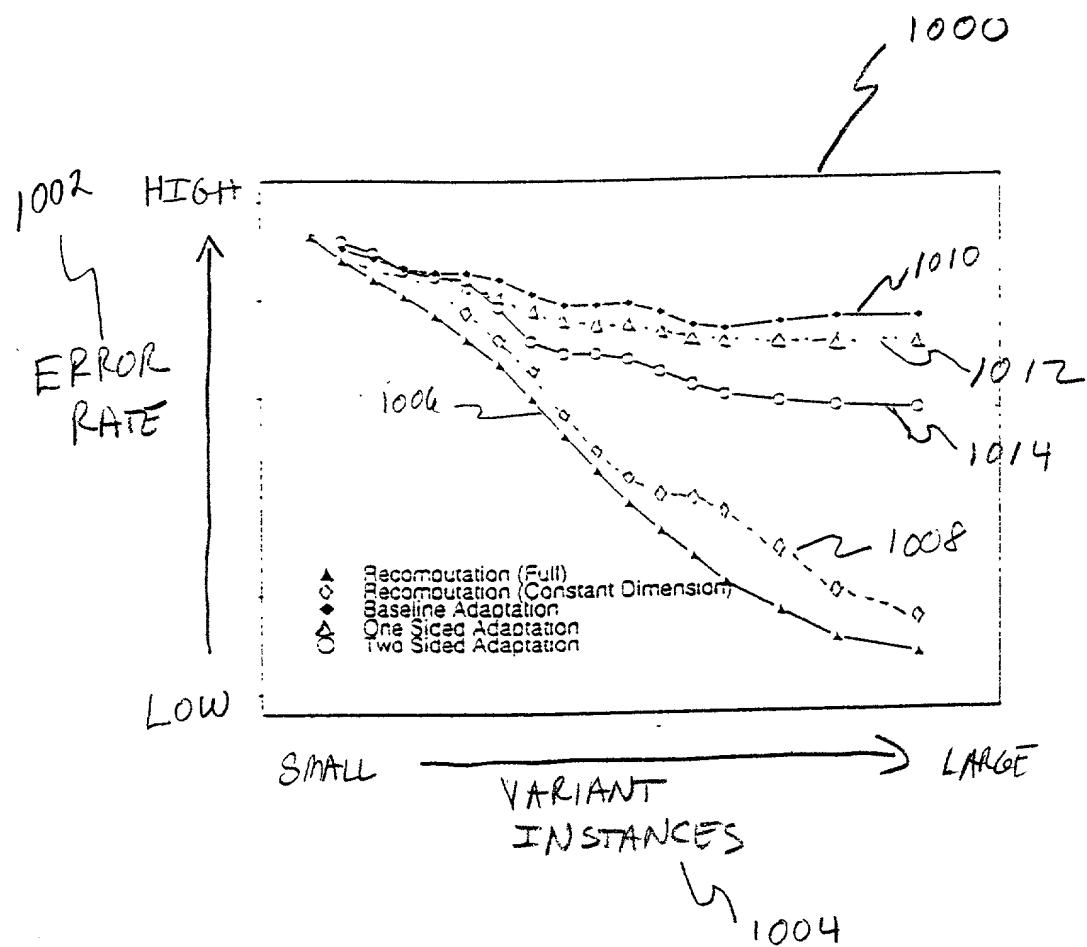


FIG. 10